

# Zongyu Zuo

## List of Publications by Year in descending order

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116  
papers

7,963  
citations

76326

40  
h-index

49909

87  
g-index

119  
all docs

119  
docs citations

119  
times ranked

3496  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reinforcement Learning-Based Fixed-Time Trajectory Tracking Control for Uncertain Robotic Manipulators With Input Saturation. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 4584-4595.	11.3	33
2	Robust Fixed-Time Stabilization Control of Generic Linear Systems With Mismatched Disturbances. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 759-768.	9.3	39
3	Three-dimensional time-varying sliding mode guidance law against maneuvering targets with terminal angle constraint. Chinese Journal of Aeronautics, 2022, 35, 303-319.	5.3	17
4	Coordinated Planar Path-Following Control for Multiple Nonholonomic Wheeled Mobile Robots. IEEE Transactions on Cybernetics, 2022, 52, 9404-9413.	9.5	20
5	Fixed-Time Terminal Angle-Constrained Cooperative Guidance Law Against Maneuvering Target. IEEE Transactions on Aerospace and Electronic Systems, 2022, 58, 1352-1366.	4.7	26
6	A survey on modelling, control and challenges of stratospheric airships. Control Engineering Practice, 2022, 119, 104979.	5.5	21
7	An Overview of Finite/Fixed-Time Control and Its Application in Engineering Systems. IEEE/CAA Journal of Automatica Sinica, 2022, 9, 2106-2120.	13.1	95
8	Unmanned Aerial Vehicles: Control Methods and Future Challenges. IEEE/CAA Journal of Automatica Sinica, 2022, 9, 601-614.	13.1	69
9	Robust adaptive sliding mode tracking control for a rigid body based on Lie subgroups of $SO(3)$ . Discrete and Continuous Dynamical Systems - Series S, 2022, .	1.1	0
10	Event-triggered based practical fixed-time consensus for chained-form multi-agent systems with dynamic disturbances. Neurocomputing, 2022, 493, 414-421.	5.9	6
11	Adaptive Backstepping Control of Uncertain Sandwich-Like Nonlinear Systems With Deadzone Nonlinearity. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 7268-7278.	9.3	9
12	A Divisive Hierarchical Clustering Approach to Hyperspectral Band Selection. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-12.	4.7	10
13	Fixed-time leader-following consensus of multiple uncertain nonholonomic systems: An adaptive distributed observer approach. Journal of the Franklin Institute, 2022, 359, 6361-6391.	3.4	5
14	Quasi-Synchronization Control of Multiple Electrohydraulic Actuators With Load Disturbance and Uncertain Parameters. IEEE/ASME Transactions on Mechatronics, 2021, 26, 2048-2058.	5.8	13
15	Bipartite Consensus Tracking for Second-Order Multiagent Systems: A Time-Varying Function-Based Preset-Time Approach. IEEE Transactions on Automatic Control, 2021, 66, 2739-2745.	5.7	124
16	Detection against randomly occurring complex attacks on distributed state estimation. Information Sciences, 2021, 547, 539-552.	6.9	12
17	Passive vibration isolation of flexure jointed hexapod: A geometry design method. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2021, 235, 2496-2506.	2.1	2
18	Higher order sliding mode based lateral guidance and control of finless airship. Aerospace Science and Technology, 2021, 113, 106670.	4.8	12

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19	Vision-based finite-time uncooperative target tracking for UAV subject to actuator saturation. <i>Automatica</i> , 2021, 130, 109708.	5.0	33
20	Three-dimensional terminal angle constraint finite-time dual-layer guidance law with autopilot dynamics. <i>Aerospace Science and Technology</i> , 2021, 116, 106818.	4.8	20
21	Sampled-data distributed protocol for coordinated aggregation of multi-agent systems subject to communication delays. <i>Nonlinear Analysis: Hybrid Systems</i> , 2021, 43, 101108.	3.5	4
22	Distributed Consensus Observer for Multiagent Systems With High-Order Integrator Dynamics. <i>IEEE Transactions on Automatic Control</i> , 2020, 65, 1771-1778.	5.7	93
23	Enclosing Control for Stratospheric Airship to Circumnavigate a Moving Target*. , 2020, , .		0
24	Parametric adaptive control of single-rod electrohydraulic system with block-strict-feedback model. <i>Automatica</i> , 2020, 113, 108807.	5.0	48
25	Practical Fixed-time Position Tracking Control of Permanent Magnet DC Torque Motor Systems. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020, , 1-1.	5.8	9
26	Model Predictive Control for Discrete-time Linear Systems with Finite-time Convergence. , 2020, , .		1
27	Distributed Optimization of Multiagent Systems With Preserved Network Connectivity. <i>IEEE Transactions on Cybernetics</i> , 2019, 49, 3980-3990.	9.5	32
28	Adaptive Backstepping Control of Uncertain Gear Transmission Servosystems With Asymmetric Dead-Zone Nonlinearity. <i>IEEE Transactions on Industrial Electronics</i> , 2019, 66, 3752-3762.	7.9	37
29	Adaptive Sliding Mode Control of Flexure Jointed Hexapods. , 2019, , .		0
30	Fixed-Time Cooperative Control of Multi-Agent Systems. , 2019, , .		34
31	Fixed-Time Stability and Stabilization. , 2019, , 17-44.		1
32	Distributed Optimization: An Edge-Based Fixed-Time Consensus Approach. , 2019, , 105-125.		0
33	Fixed-Time Cooperative Control for First-Order Multi-Agent Systems. , 2019, , 45-58.		1
34	Fixed-Time Cooperative Control for High-Order Multi-Agent Systems. , 2019, , 69-83.		0
35	Distributed Optimization with Preserved Network Connectivity. , 2019, , 127-151.		0
36	Practical fixed-time consensus for integrator-type multi-agent systems: A time base generator approach. <i>Automatica</i> , 2019, 105, 406-414.	5.0	206

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37	Fixed-time stabilization of general linear systems with input delay. <i>Journal of the Franklin Institute</i> , 2019, 356, 4467-4477.	3.4	26
38	Control strategy for fixed-time leader-follower consensus for multi-agent systems with chained-form dynamics. <i>Nonlinear Dynamics</i> , 2019, 96, 2693-2705.	5.2	23
39	Three-Dimensional Path-Following Backstepping Control for an Underactuated Stratospheric Airship. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2019, 55, 1483-1497.	4.7	38
40	Adaptive Finite-Time Attitude Tracking of Quadrotors With Experiments and Comparisons. <i>IEEE Transactions on Industrial Electronics</i> , 2019, 66, 9428-9438.	7.9	125
41	An Explicit Estimate for the Upper Bound of the Settling Time in Fixed-Time Leader-Following Consensus of High-Order Multivariable Multiagent Systems. <i>IEEE Transactions on Industrial Electronics</i> , 2019, 66, 6250-6259.	7.9	47
42	Robust three-dimensional path-following control for an under-actuated stratospheric airship. <i>Advances in Space Research</i> , 2019, 63, 526-538.	2.6	13
43	Fixed-Time Formation Control of Multirobot Systems: Design and Experiments. <i>IEEE Transactions on Industrial Electronics</i> , 2019, 66, 6292-6301.	7.9	129
44	Robust $\mathcal{H}_2$ disturbance attenuation for a class of uncertain Lipschitz nonlinear systems with input delay. <i>International Journal of Control</i> , 2019, 92, 1015-1021.	1.9	3
45	Predictor-Based Extended-State-Observer Design for Consensus of MASs With Delays and Disturbances. <i>IEEE Transactions on Cybernetics</i> , 2019, 49, 1259-1269.	9.5	126
46	Distributed Optimization for Multiagent Systems: An Edge-Based Fixed-Time Consensus Approach. <i>IEEE Transactions on Cybernetics</i> , 2019, 49, 122-132.	9.5	196
47	Fixed-Time Leader-Follower Output Feedback Consensus for Second-Order Multiagent Systems. <i>IEEE Transactions on Cybernetics</i> , 2019, 49, 1545-1550.	9.5	216
48	Online Power Scheduling for Distributed Filtering Over an Energy-Limited Sensor Network. <i>IEEE Transactions on Industrial Electronics</i> , 2018, 65, 4216-4226.	7.9	28
49	An Overview of Recent Advances in Fixed-Time Cooperative Control of Multiagent Systems. <i>IEEE Transactions on Industrial Informatics</i> , 2018, 14, 2322-2334.	11.3	428
50	Multivariable uniform finite-time output feedback reentry attitude control for RLV with mismatched disturbance. <i>Journal of the Franklin Institute</i> , 2018, 355, 3470-3487.	3.4	28
51	Collective Behaviors of Mobile Robots Beyond the Nearest Neighbor Rules With Switching Topology. <i>IEEE Transactions on Cybernetics</i> , 2018, 48, 1577-1590.	9.5	170
52	Multivariable finite-time output feedback trajectory tracking control of quadrotor helicopters. <i>International Journal of Robust and Nonlinear Control</i> , 2018, 28, 281-295.	3.7	72
53	Fixed-Time Consensus Tracking for Multiagent Systems With High-Order Integrator Dynamics. <i>IEEE Transactions on Automatic Control</i> , 2018, 63, 563-570.	5.7	499
54	Adaptive fault tolerant control for trajectory tracking of a quadrotor helicopter. <i>Transactions of the Institute of Measurement and Control</i> , 2018, 40, 3560-3569.	1.7	13

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55	Distributed Fixed-Time Coordinated Tracking for Nonlinear Multi-Agent Systems Under Directed Graphs. Asian Journal of Control, 2018, 20, 646-658.	3.0	40
56	Multivariable Finite Time Attitude Control for Quadrotor UAV: Theory and Experimentation. IEEE Transactions on Industrial Electronics, 2018, 65, 2567-2577.	7.9	213
57	Nonlinear Robust Flight Mode Transition Control for Tail-Sitter Aircraft. IEEE Access, 2018, 6, 65909-65921.	4.2	6
58	Fixed-time stabilization of high-order integrator systems with mismatched disturbances. Nonlinear Dynamics, 2018, 94, 2889-2899.	5.2	64
59	Adaptive output feedback control of uncertain gear transmission system with dead zone nonlinearity. , 2018, , .		2
60	Nonlinear robust control of tail-sitter aircrafts in flight mode transitions. Aerospace Science and Technology, 2018, 81, 348-361.	4.8	34
61	A Truncated Prediction Approach to Consensus Control of Lipschitz Nonlinear Multiagent Systems With Input Delay. IEEE Transactions on Control of Network Systems, 2017, 4, 716-724.	3.7	87
62	Backstepping control for gear transmission servo systems with unknown partially nonsymmetric deadzone nonlinearity. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2017, 231, 2580-2589.	2.1	3
63	Leader-follower fixed-time consensus of multi-agent systems with high-order integrator dynamics. International Journal of Control, 2017, 90, 1420-1427.	1.9	106
64	A fixed-time output feedback control scheme for double integrator systems. Automatica, 2017, 80, 17-24.	5.0	279
65	Active Debris Removal Using Double-Tethered Space-Tug System. Journal of Guidance, Control, and Dynamics, 2017, 40, 722-730.	2.8	46
66	Truncated Predictor Control of Lipschitz Nonlinear Systems With Time-Varying Input Delay. IEEE Transactions on Automatic Control, 2017, 62, 5324-5330.	5.7	41
67	Distributed fixed-time cooperative tracking control for multi-robot systems. , 2017, , .		6
68	Fixed-time nonlinear consensus algorithms for multi-agent systems with input delay. , 2017, , .		3
69	Formation control with disturbance rejection for a class of Lipschitz nonlinear systems. Science China Information Sciences, 2017, 60, 1.	4.3	35
70	Robust attitude control for quadrotors with input time delays. Control Engineering Practice, 2017, 58, 142-149.	5.5	23
71	Robust consensus control of uncertain multi-agent systems with input delay: a model reduction method. International Journal of Robust and Nonlinear Control, 2017, 27, 1874-1894.	3.7	48
72	Consensus disturbance rejection for Lipschitz nonlinear multi-agent systems with input delay: A DOBC approach. Journal of the Franklin Institute, 2017, 354, 298-315.	3.4	58

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73	Robust Control for Quadrotors With Multiple Time-Varying Uncertainties and Delays. IEEE Transactions on Industrial Electronics, 2017, 64, 1303-1312.	7.9	119
74	Adaptive Backstepping for Robust Trajectory Tracking of UAVs. IEEE Transactions on Industrial Electronics, 2017, 64, 2944-2954.	7.9	62
75	Consensus disturbance rejection of network-connected dynamic systems with input delay and unknown network connectivity * *This research was supported by the National Natural Science Foundation of China (No. 61673034), and the China Scholarship Council (CSC).. IFAC-PapersOnLine, 2017, 50, 10357-10362.	0.9	4
76	Backstepping control of sandwich-like nonlinear systems with deadzone nonlinearity. IET Control Theory and Applications, 2017, 11, 3122-3129.	2.1	9
77	Control scheme for LTI systems with Lipschitz nonlinearity and unknown time-varying input delay. IET Control Theory and Applications, 2017, 11, 3191-3195.	2.1	12
78	Adaptive backstepping control of gear transmission systems with elastic deadzone. , 2017, , .		2
79	Three dimensional path-following control of an under-actuated airship. , 2016, , .		4
80	Cooperative control of distributed battery energy storage systems in Microgrids. , 2016, , .		5
81	Trajectory tracking of a quadrotor helicopter based on $h_1$ adaptive control. , 2016, , .		0
82	Adaptive control of uncertain gear transmission servo systems with dead-zone nonlinearity. , 2016, , .		4
83	Attitude tracking control of a 3-DOF helicopter with input and output constraints. , 2016, , .		1
84	Nodes selection strategy in cooperative tracking problem. Automatica, 2016, 74, 118-125.	5.0	29
85	Fixed-time stabilization of second-order uncertain multivariable nonlinear systems. , 2016, , .		7
86	Fixed-time stabilisation and consensus of nonholonomic systems. IET Control Theory and Applications, 2016, 10, 2497-2505.	2.1	71
87	Approximate analysis for main rotor flapping dynamics of a model-scaled helicopter with Bell-Hiller stabilizing bar in hovering and vertical flights. Nonlinear Dynamics, 2016, 85, 1705-1717.	5.2	7
88	Distributed robust finite-time nonlinear consensus protocols for multi-agent systems. International Journal of Systems Science, 2016, 47, 1366-1375.	5.5	507
89	Truncated Prediction Output Feedback Control of a Class of Lipschitz Nonlinear Systems With Input Delay. IEEE Transactions on Circuits and Systems II: Express Briefs, 2016, 63, 788-792.	3.0	26
90	Control of Gear Transmission Servo Systems With Asymmetric Deadzone Nonlinearity. IEEE Transactions on Control Systems Technology, 2016, 24, 1472-1479.	5.2	31

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91	Signed-average consensus for networks of agents: a nonlinear fixed-time convergence protocol. <i>Nonlinear Dynamics</i> , 2016, 85, 155-165.	5.2	61
92	Leader-follower consensus control of Lipschitz nonlinear systems by output feedback. <i>International Journal of Systems Science</i> , 2016, 47, 3772-3781.	5.5	13
93	Robust Three-Loop Trajectory Tracking Control for Quadrotors with Multiple Uncertainties. <i>IEEE Transactions on Industrial Electronics</i> , 2016, , 1-1.	7.9	78
94	Almost global trajectory tracking control of quadrotors with constrained control inputs. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , 2016, 230, 856-869.	1.3	9
95	Chattering-free sliding mode control for MIMO nonlinear manipulator systems based on adaptive neural networks. , 2015, , .		1
96	Controlled Lagrangians control for a quadrotor helicopter. , 2015, , .		1
97	Nonsingular fixed-time consensus tracking for second-order multi-agent networks. <i>Automatica</i> , 2015, 54, 305-309.	5.0	761
98	Non-singular fixed-time terminal sliding mode control of non-linear systems. <i>IET Control Theory and Applications</i> , 2015, 9, 545-552.	2.1	393
99	Backstepping Control for Gear Transmission Servo Systems With Backlash Nonlinearity. <i>IEEE Transactions on Automation Science and Engineering</i> , 2015, 12, 752-757.	5.2	52
100	Consensus Control of a Class of Lipschitz Nonlinear Systems With Input Delay. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2015, 62, 2730-2738.	5.4	118
101	Three-dimensional coordinated path-following control for second-order multi-agent networks. <i>Journal of the Franklin Institute</i> , 2015, 352, 3858-3872.	3.4	23
102	$\frac{L}{L+1}$ adaptive control of uncertain gear transmission servo systems with deadzone nonlinearity. <i>ISA Transactions</i> , 2015, 58, 67-75.		6
103	Nonlinear adaptive trajectory tracking control for a quad-rotor with parametric uncertainty. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , 2015, 229, 1709-1721.	1.3	24
104	Augmented $L_1$ adaptive tracking control of quad-rotor unmanned aircrafts. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2014, 50, 3090-3101.	4.7	100
105	A new coordinated path-following control for second-order multi-agent systems. , 2014, , .		2
106	Adaptive trajectory tracking control of output constrained multi-rotors systems. <i>IET Control Theory and Applications</i> , 2014, 8, 1163-1174.	2.1	219
107	A new class of finite-time nonlinear consensus protocols for multi-agent systems. <i>International Journal of Control</i> , 2014, 87, 363-370.	1.9	402
108	Fixed-time consensus for multi-agent systems under directed and switching interaction topology. , 2014, , .		23

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109	Three-Dimensional Consensus Path-Following for Second-Order Multi-Agent Networks. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 10060-10065.	0.4	4
110	Hyperbolic tangent function based adaptive trajectory tracking control for quadrotors. , 2013, , .		3
111	Adaptive trajectory tracking control design with command filtered compensation for a quadrotor. JVC/Journal of Vibration and Control, 2013, 19, 94-108.	2.6	74
112	Backstepping for Robust Trajectory Tracking*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 1-6.	0.4	3
113	Adaptive Trajectory Tracking of Stratospheric Airship Based on Input-output Stability Theory. , 2011, , .		1
114	Modeling, Stability Analysis and Simulation of a Stratosphere Hybrid Tethered Platform. , 2011, , .		1
115	Trajectory tracking control design with command-filtered compensation for a quadrotor. IET Control Theory and Applications, 2010, 4, 2343-2355.	2.1	363
116	Trajectory Tracking Control of a Quadrotor Unmanned Mini-Helicopter. , 2010, , .		11